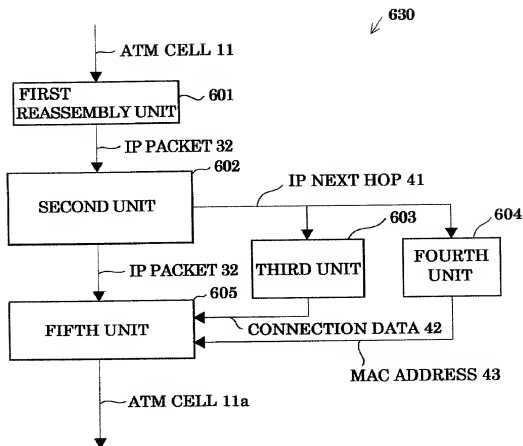
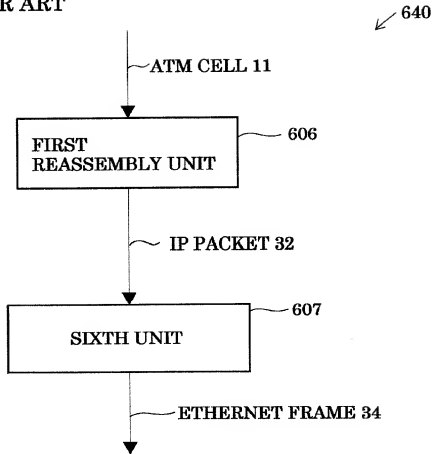


FIG. 1  
PRIOR ART



**FIG. 2**  
**PRIOR ART**



**FIG. 3**  
**PRIOR ART**

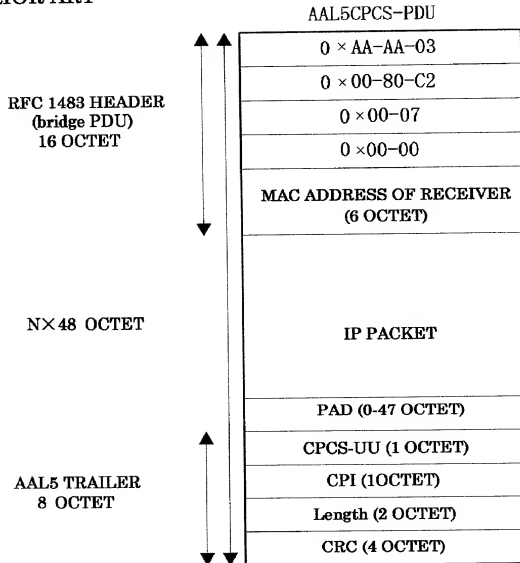


FIG. 4

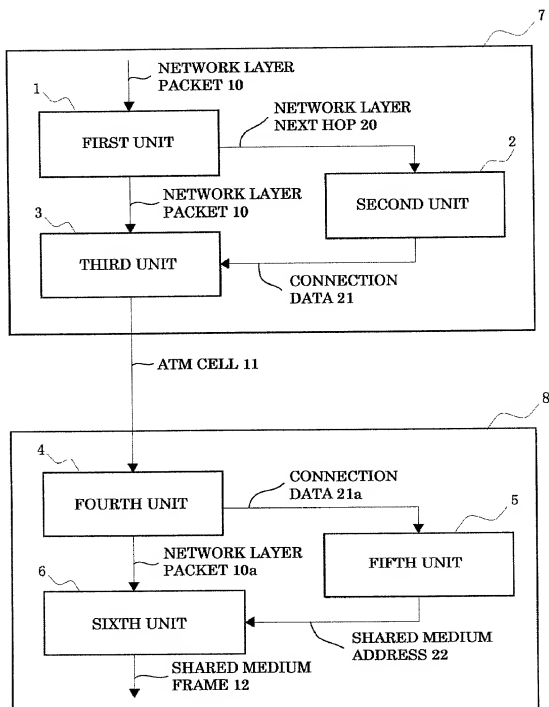


FIG. 5

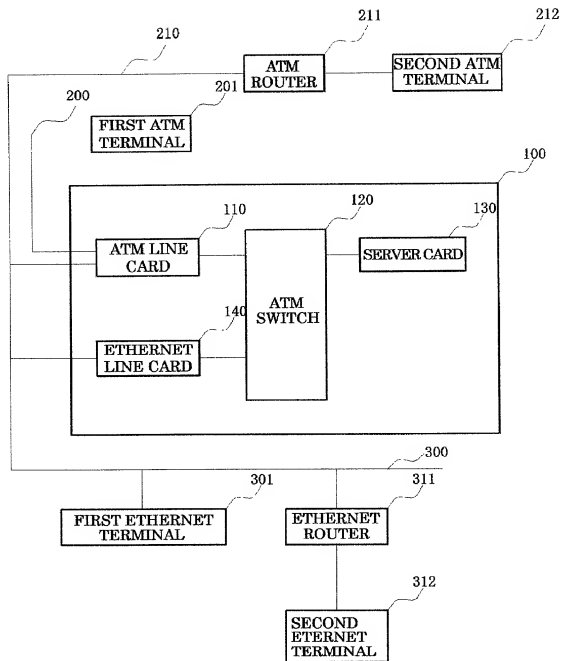


FIG. 6

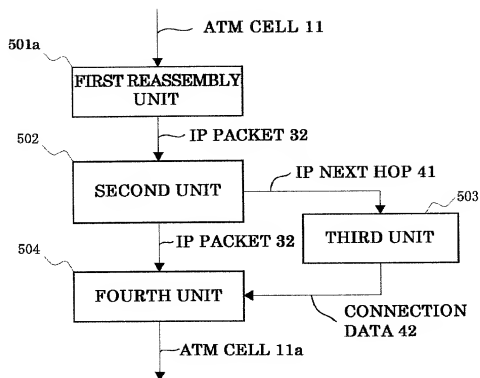


FIG. 7

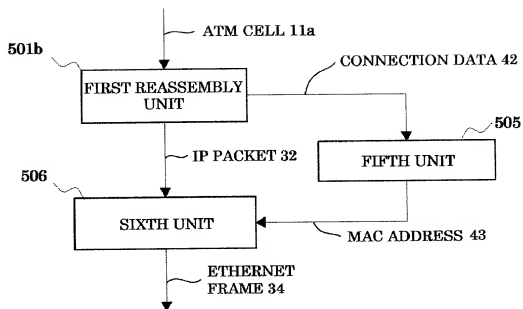


FIG. 8

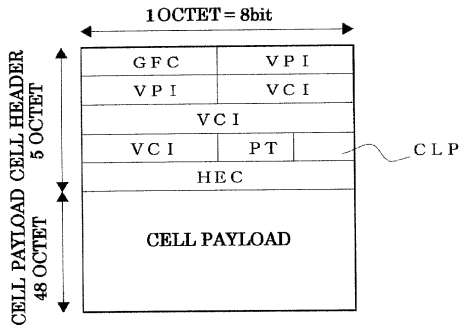




FIG. 9

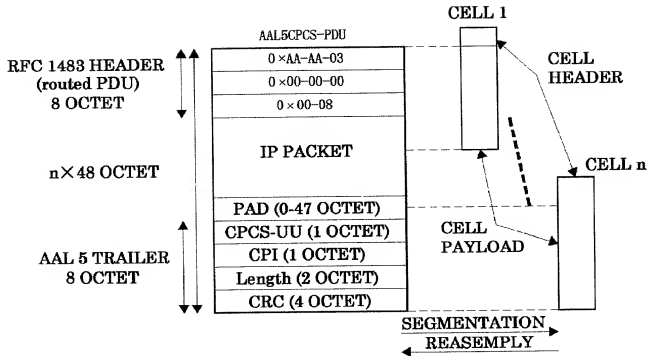


FIG. 10

IP ADDRESS OF RECEIVER	IP NEXT HOP	601
IP ADDRESS OF FIRST ATM TERMINAL 201	IP ADDRESS OF FIRST ATM TERMINAL 201	41a
IP ADDRESS OF SECOND ATM TERMINAL 212	IP ADDRESS OF ATM ROUTER 211	41b
IP ADDRESS OF ETHERNET TERMINAL 301	IP ADDRESS OF ETHERNET TERMINAL 301	41c
IP ADDRESS OF ETHERNET TERMINAL 312	IP ADDRESS OF ETHERNET ROUTER 311	41d

FIG. 11

IP ADDRESS OF RECEIVER	CONNECTION DATA
IP ADDRESS OF FIRST ATM TERMINAL 201	42a
IP ADDRESS OF ATM ROUTER 211	42b
IP ADDRESS OF ETHERNET TERMINAL 301	42c
IP ADDRESS OF ETHERNET ROUTER 311	42d

602

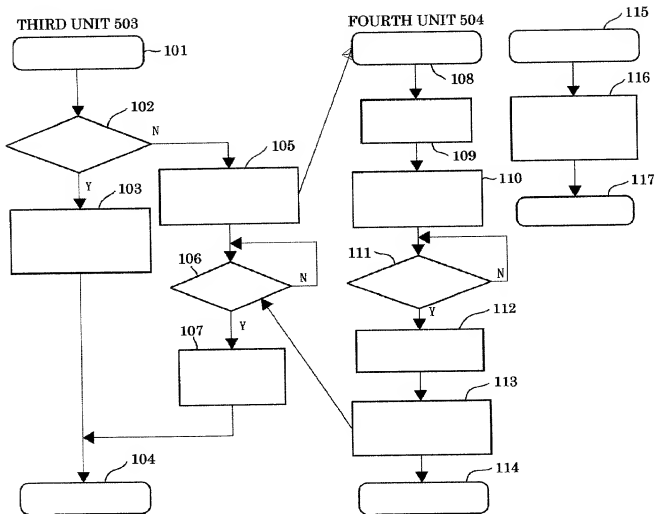
FIG. 12

ETHERNET FRAME	
PREAMBLE (7 OCTET)	
SFD (1 OCTET)	
MAC ADDRESS OF RECEIVER (6 OCTET)	
MAC ADDRESS OF TRANSMITTER (6 OCTET)	
TYPE (2 OCTET)	
IP PACKET	
FCS (4 OCTET)	

FIG. 13

CONNECTION DATA	MAC ADDRESS	603
42c	MAC ADDRESS OF ETHERNET TERMINAL 301	43c
42d	MAC ADDRESS OF ETHERNET ROUTER 311	43d

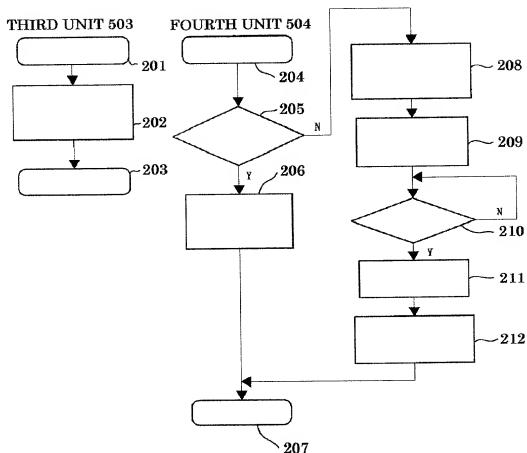
FIG. 14



101 : RECEIVING IP PACKET 32x  
 102 : IS CONNECTION DATA INCLUDED ?  
 103 : FINDING CONNECTION DATA 42x  
 104 : TRANSMITTING CONNECTION  
 DATA 42x  
 105 : TRANSMITTING ATM ARP PACKET  
 106 : IS RESPONSE RECEIVED ?  
 107 : STORING RELATION  
 108 : RECEIVING ATM ARP PACKET  
 109 : ASSIGNING NON-USED CONNECTION  
 DATA 42x  
 110 : TRANSMITTING ARP PACKET

111 : IS RESPONSE RECEIVED ?  
 112 : EXTRACTING MAC ADDRESS 43x  
 113 : STORING RELATION  
 114 : TRANSMITTING MAC ADDRESS 43x  
 115 : RECEIVING CONNECTION DATA 42x  
 116 : FINDING MAC ADDRESS 43x  
 117 : TRANSMITTING MAC ADDRESS 43x

FIG. 15



201 : RECEIVING IP PACKET 32y  
 202 : PRODUCING CONNECTION  
 DATA 42y  
 203 : TRANSMITTING CONNECTION  
 DATA 42y  
 204 : RECEIVING CONNECTION  
 DATA 42y  
 205 : IS CONNECTION DATA  
 REGISTERED ?  
 206 : FINDING MAC ADDRESS 43y  
 207 : TRANSMITTING MAC ADDRESS 43y

208 : DEFINING IP NEXT HOP 41y  
 209 : TRANSMITTING ARP PACKET  
 210 : IS RESPONSE RECEIVED ?  
 211 : EXTRACTING MAC ADDRESS 43y  
 212 : STORING RELATION

FIG. 16

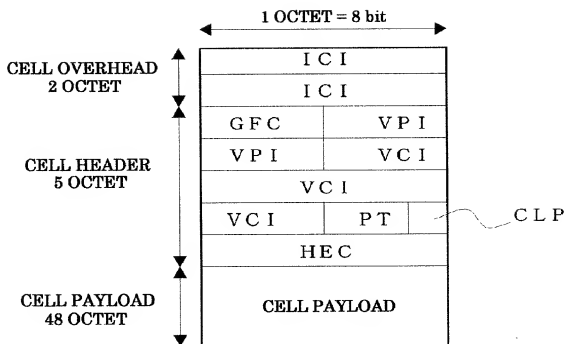




FIG. 17

